UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

June 1963

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
JUNE 1963

Acknowledgments

The following organizations and stations contributed data for the June 1963 charts:

U.S. Weather Bureau, San Diego, California
U.S. Weather Bureau Ship Visitation Office, Long Beach, California
U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U.S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U.S. Bureau of Commercial Fisheries Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U.S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
California Department of Fish and Game, R/V N. B. Scofield
Guadalupe Island, Coronado Island, Ensenada, Cedros Island and Almejas Bay by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico
Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; R. Pereira at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; N. Zambrano at San Cristobal, Galapagos; S. Valenzuela at La Libertad, Ecuador, G. Villar at Talara, Peru; Juan Andia at San Juan, Peru
Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California
Kelco Company, San Diego, California
Oregon State University
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; N. R. Shrimpton at Cape St. James Light; B. Stuart at Amphitrite Point Light; J. M. Hartt at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ships Bonnie, M/V Santa Maria

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term mean charts of H.O. 225. Hatched areas are colder than mean.

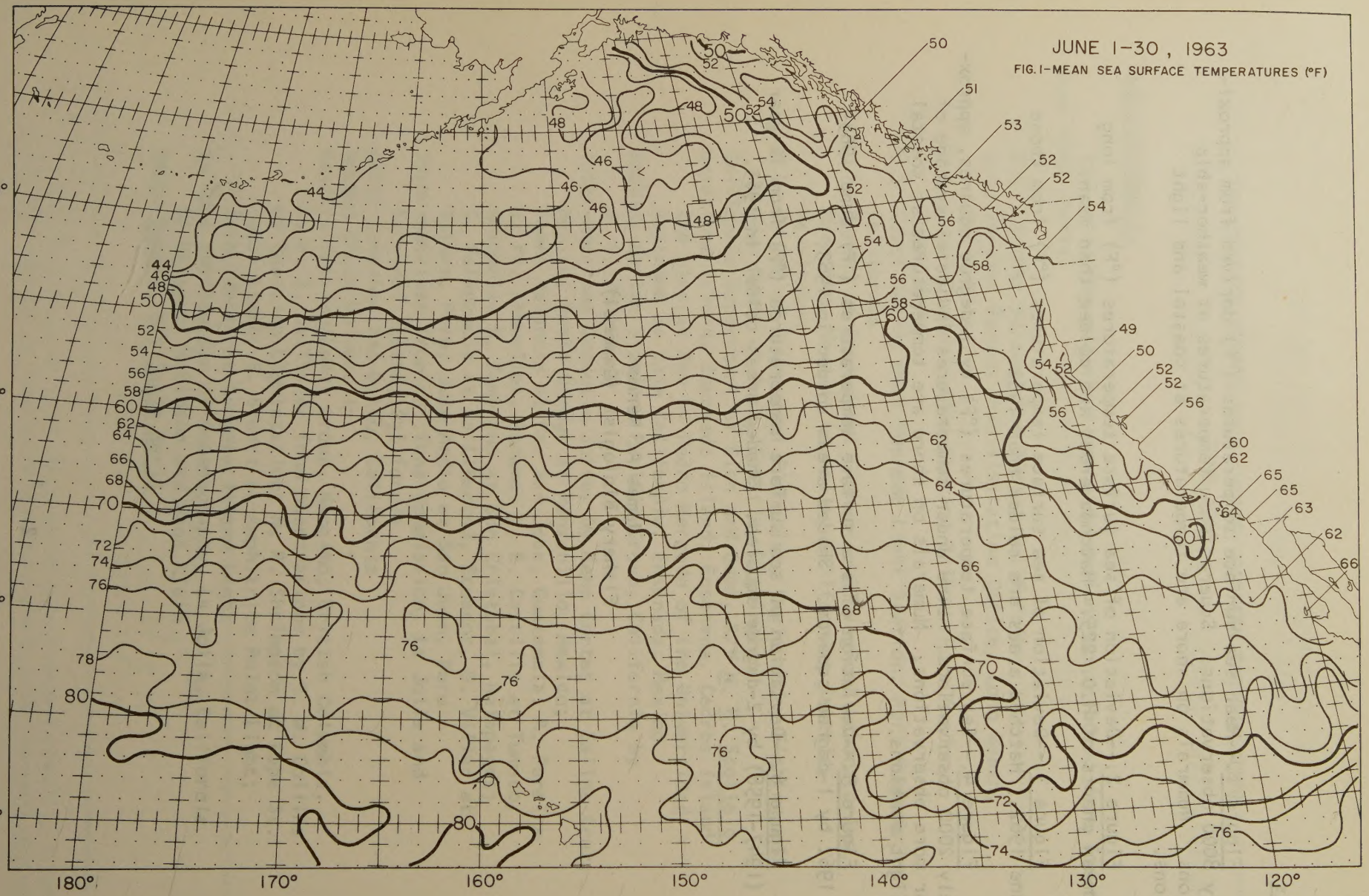
Figure 3.--Deviation of sea surface temperatures (°F) from those of June 1962. Hatched areas are colder than 1962.

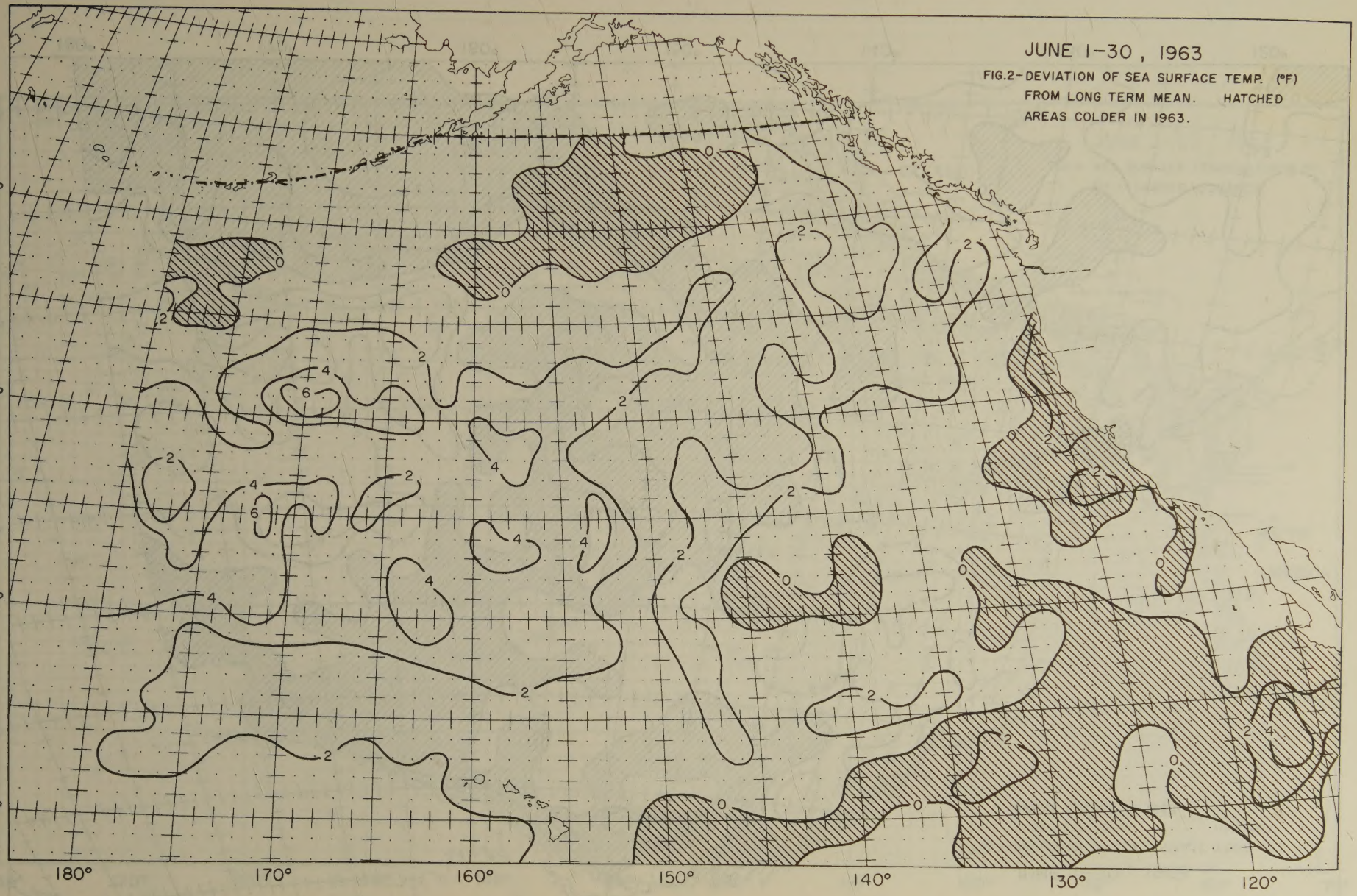
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

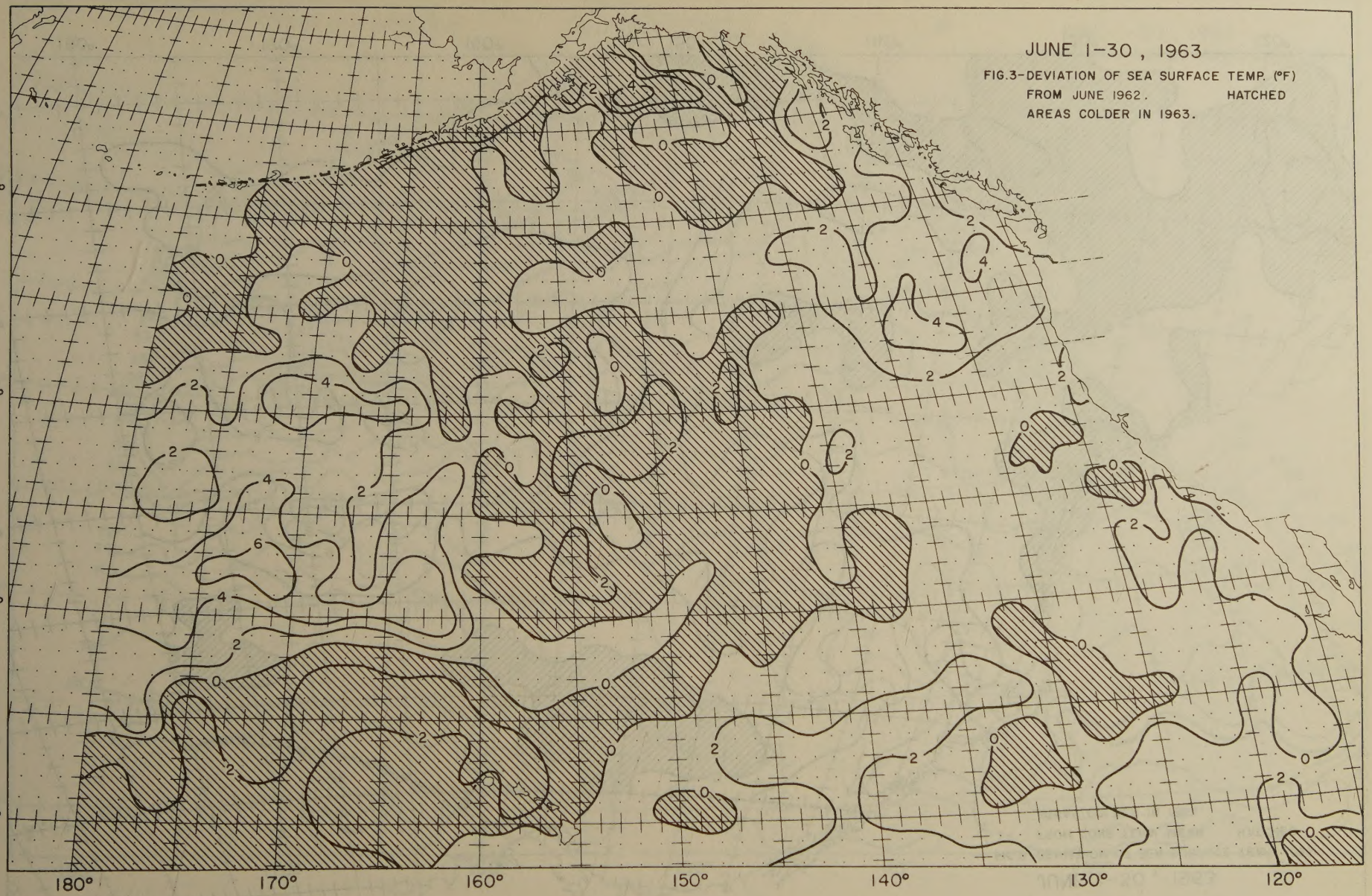
Figure 5.--Deviation of sea surface temperatures (°F) June 1963-June 1962 by 1-degree squares. Shaded areas colder in 1963.

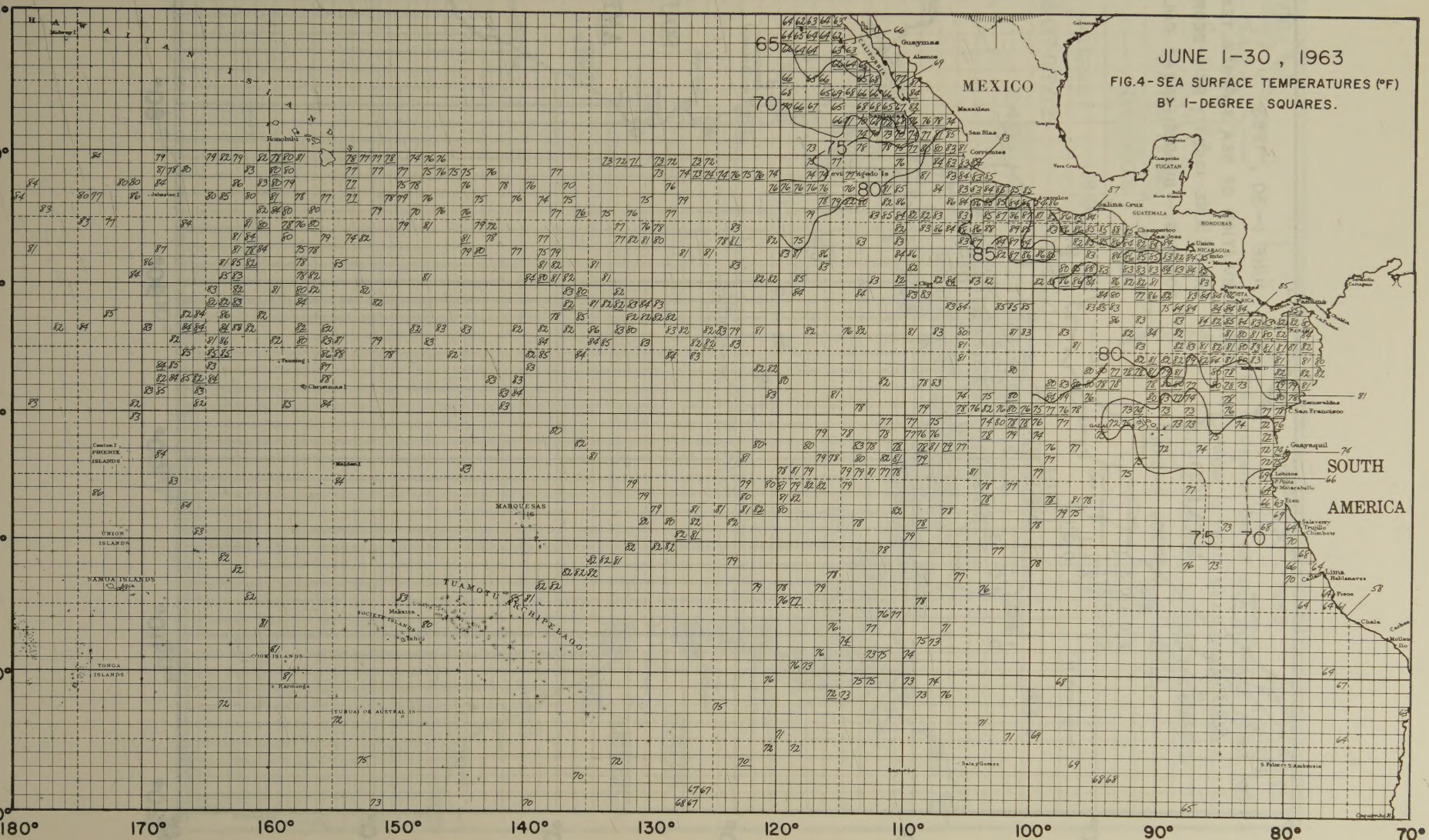
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas colder in 1963.

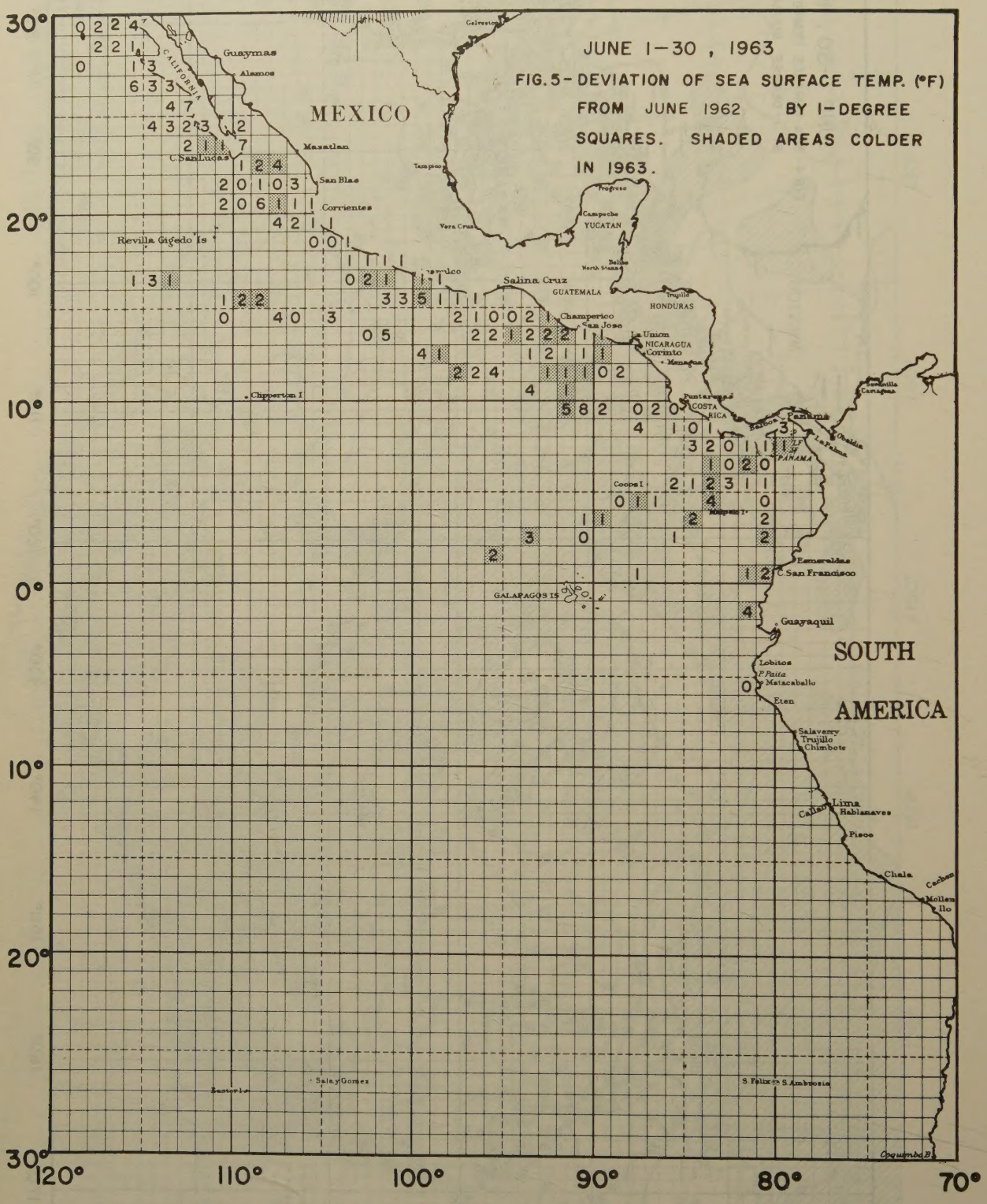
James A. Renner
Fishery Biologist (General)

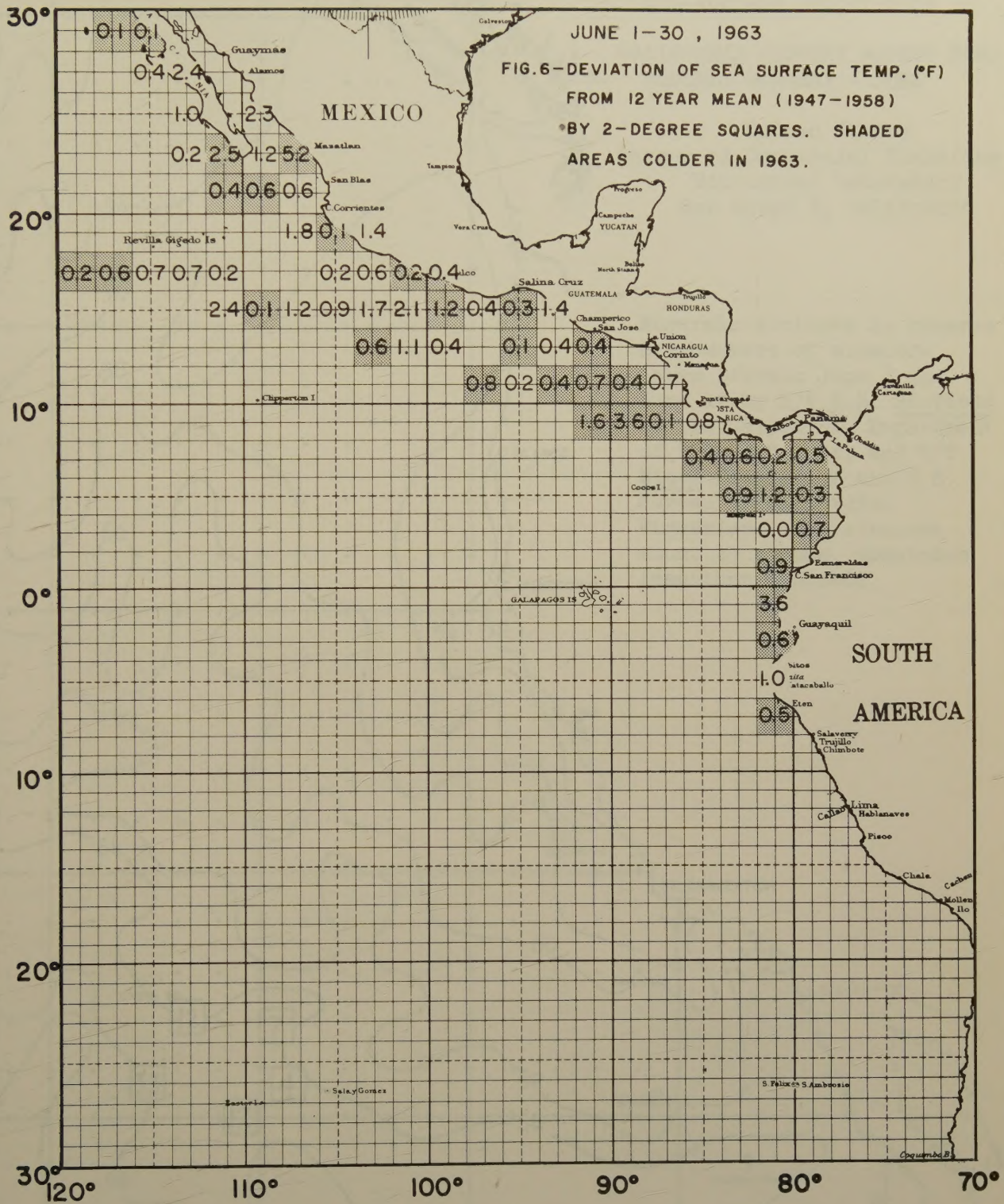

JUNE 1-30, 1963
FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

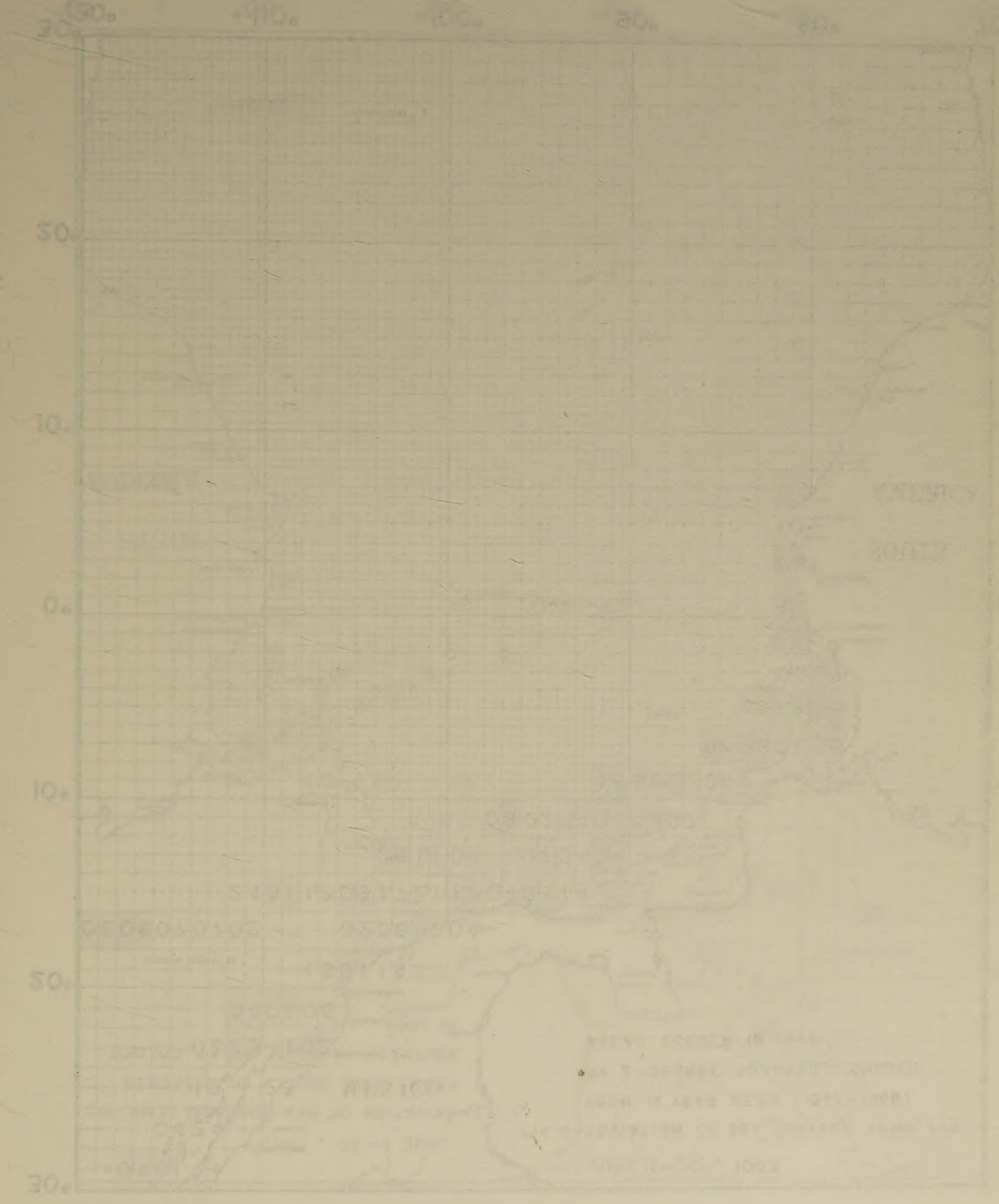

JUNE 1–30, 1963
FIG.2–DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1963.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

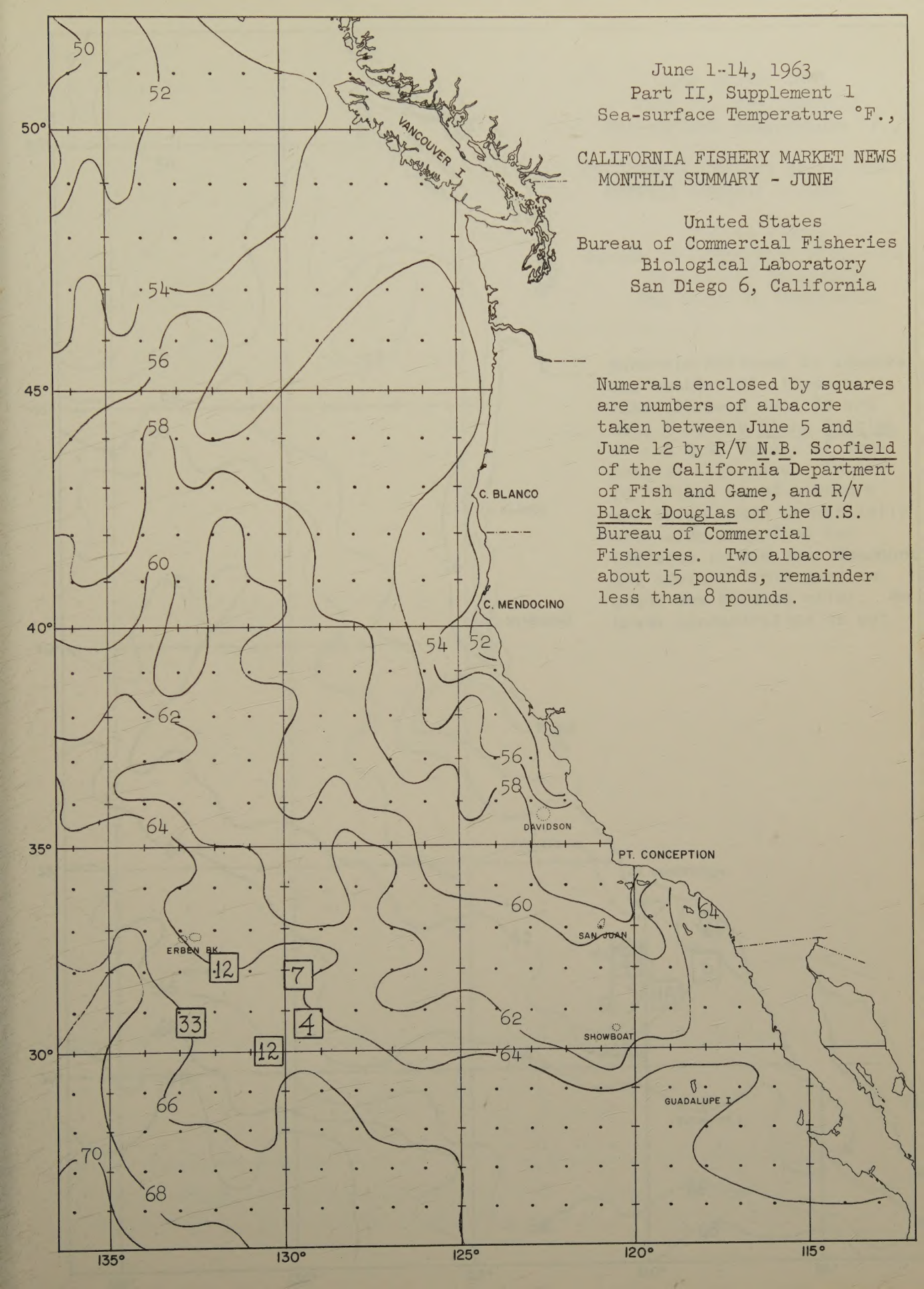

JUNE 1–30 , 1963
FIG.3–DEVIATION OF SEA SURFACE TEMP. (°F)
FROM JUNE 1962. HATCHED
AREAS COLDER IN 1963.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

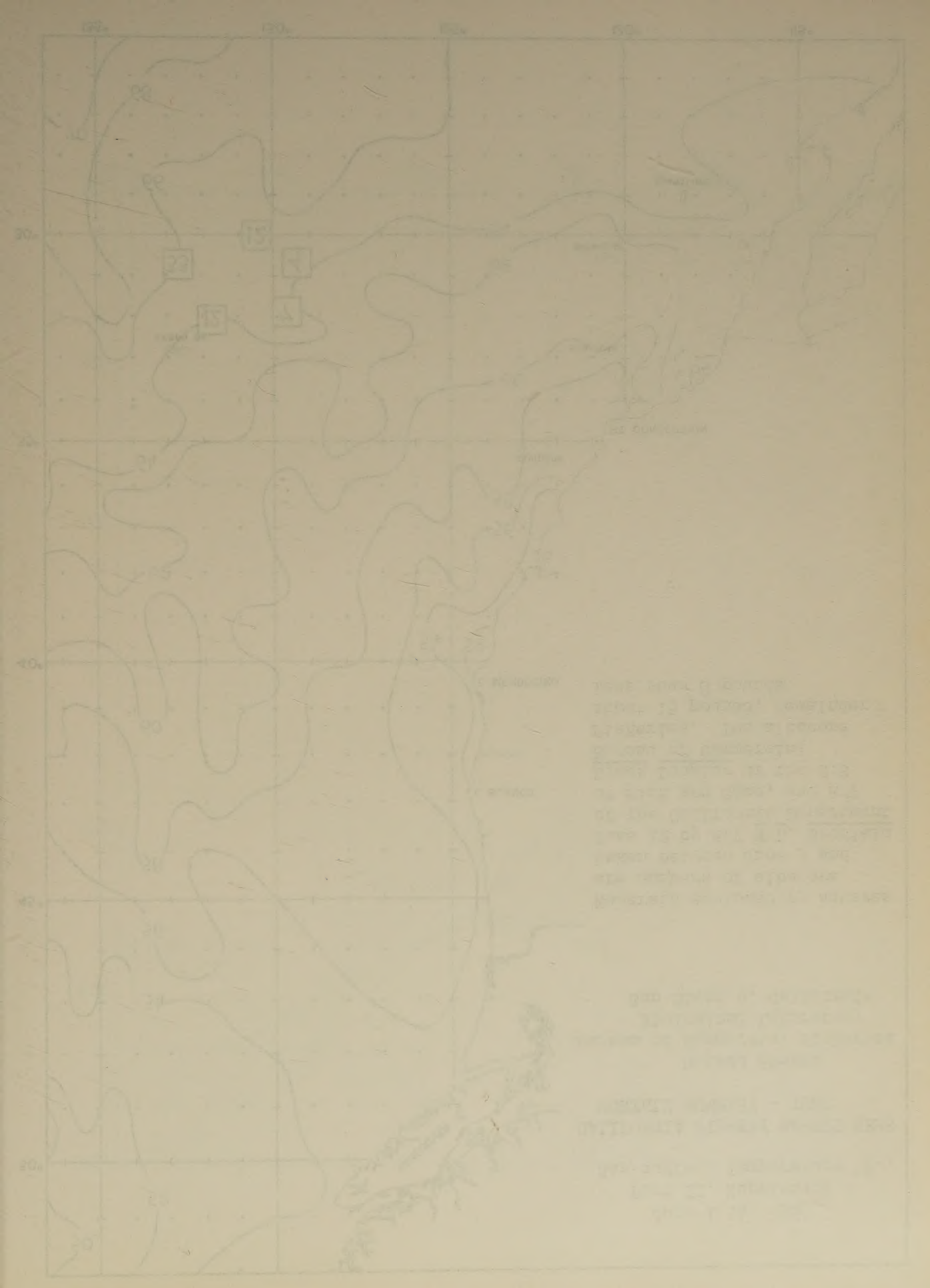

JUNE 1–30, 1963
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
HAWAIIAN ISLANDS
Honolulu
Johnston I.
Canton I.
PHOENIX ISLANDS
Hull I.
Christmas I.
Fanning I.
MARQUESAS
UNION ISLANDS
SAMOA ISLANDS
Apia
TUAMOTU ARCHIPELAGO
SOCIETY ISLANDS
Tahiti
Makatea
COOK ISLANDS
Rarotonga
TONGA ISLANDS
TUBUAI OR AUSTRAL IS.
Guaymas
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
GUATEMALA
HONDURAS
NICARAGUA
Chiapa
Tehuantepec
Galapagos Is.
Manta
Guayaquil
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Arica
Iquique
Antofagasta
Valparaiso
Coquimbo
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°

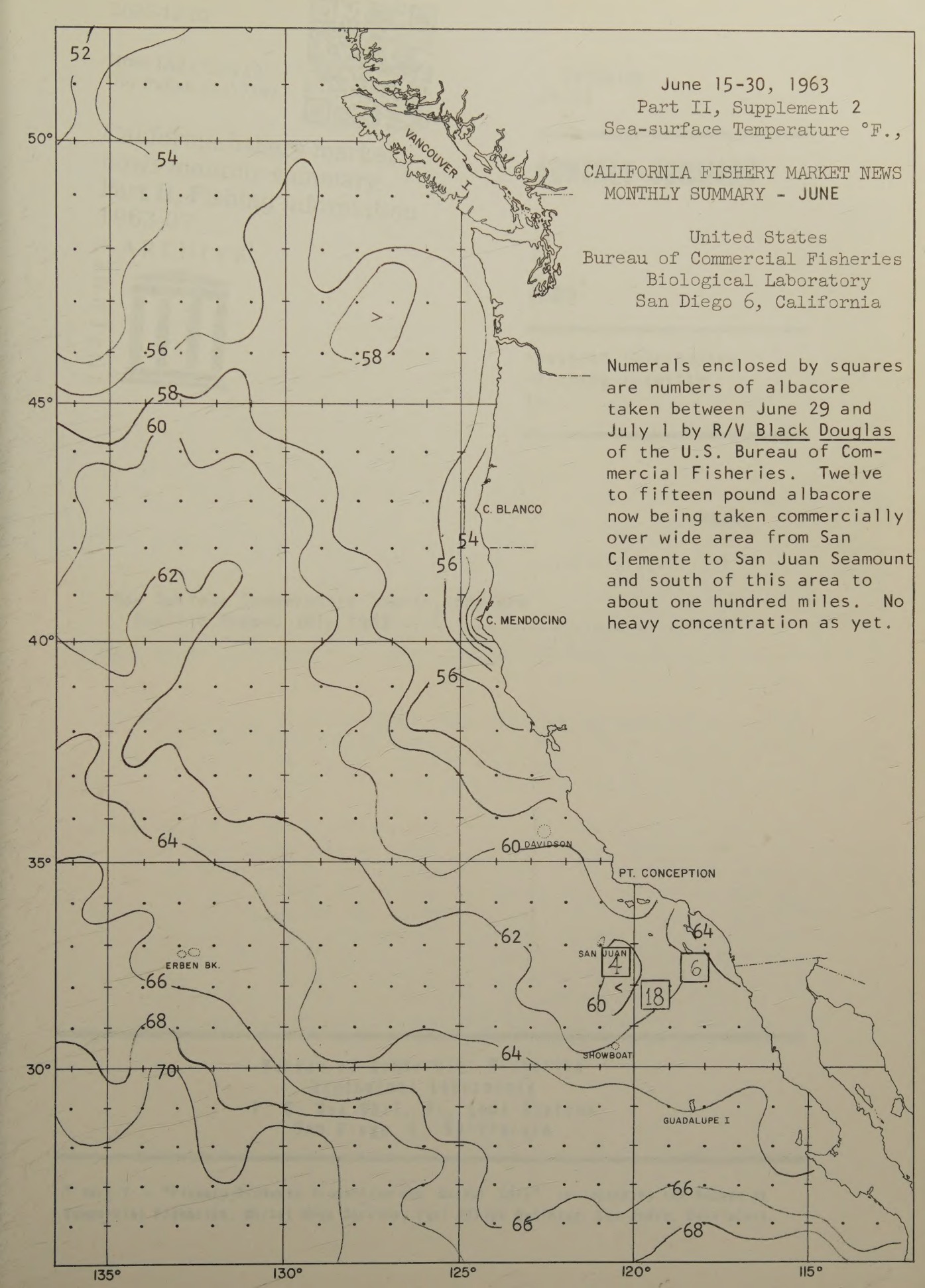

JUNE 1—30 , 1963
FIG. 5 - DEVIATION OF SEA SURFACE TEMP. (°F) FROM JUNE 1962 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1963.
MEXICO
CALIFORNIA
Guaymas
Alamos
Mazatlan
C. San Lucas
San Blas
Corrientes
Revilla Gigedo Is
Salina Cruz
GUATEMALA
HONDURAS
Champerico
San Jose
La Union
NICARAGUA
Corinto
Chipperton I
COSTA RICA
PANAMA
Coopes I
GALAPAGOS IS
Esmeraldas
C. San Francisco
Guayaquil
SOUTH AMERICA
Lobitos
P. Pasita
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Huacho
Pisco
Chala
Mollendo
Sala y Gomez
S. Felix
S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


JUNE 1—30 , 1963
FIG.6—DEVIATION OF SEA SURFACE TEMP. (°F)
FROM 12 YEAR MEAN (1947—1958)
BY 2-DEGREE SQUARES. SHADED
AREAS COLDER IN 1963.
MEXICO
SOUTH
AMERICA
GUATEMALA
HONDURAS
NICARAGUA
YUCATAN
Guaymas
Alamos
Mazatlan
San Blas
C. Corrientes
Salina Cruz
San Jose
Corinto
Managua
Punta Arenas
COSTA RICA
Panama
Puerto Obaldia
Cocos I
GALAPAGOS IS
Guayaquil
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Mollendo
Ilo
Easter I.
Sala y Gomez
S. Felix & S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°




June 1-14, 1963
Part II, Supplement 1
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - JUNE
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
Numerals enclosed by squares are numbers of albacore taken between June 5 and June 12 by R/V N.B. Scofield of the California Department of Fish and Game, and R/V Black Douglas of the U.S. Bureau of Commercial Fisheries. Two albacore about 15 pounds, remainder less than 8 pounds.
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
GUADALUPE I.
ERBEN BK.
50
52
54
56
58
60
62
64
66
68
70
12
7
33
4
12
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°




June 15-30, 1963
Part II, Supplement 2
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - JUNE
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
Numerals enclosed by squares are numbers of albacore taken between June 29 and July 1 by R/V Black Douglas of the U.S. Bureau of Commercial Fisheries. Twelve to fifteen pound albacore now being taken commercially over wide area from San Clemente to San Juan Seamount and south of this area to about one hundred miles. No heavy concentration as yet.
VANCOUVER I
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
ERBEN BK.
SAN JUAN
SHOWBOAT
GUADALUPE I
4
6
18
52
54
56
58
60
62
64
66
68
70
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°